

Amendments to the Claims

Please cancel Claims 1-46. Please add new Claims 47-54. The Claim Listing below will replace all prior versions of the claims in the application:

Claim Listing

- 1-46. (cancelled)
47. (new): A method of stimulating bone growth in a subject at a site in need of bone growth and at which bone growth would not occur if left untreated, said method comprising the step of administering to the site a therapeutically effective amount of the peptide Ala-Gly-Tyr-Lys-Pro-Asp-Glu-Gly-Lys-Arg-Gly-Asp-Ala-Cys-Glu-Gly-Asp-Ser-Gly-Gly-Pro-Phe-Val-NH₂ (SEQ ID NO: 7).
48. (new): The method of Claim 47 wherein the site is in need of a bone graft.
49. (new): The method of Claim 47 wherein the site is a segmental gap in a bone, a bone void or at a non-union fracture.
50. (new): The method of Claim 47 wherein the agonist is administered in a pharmaceutical composition additionally comprising an implantable, biocompatible carrier.
51. (new): The method of Claim 50 wherein the implantable, biocompatible carrier is an osteoconductive matrix.
52. (new): The method of Claim 47 wherein the carrier comprises a polylactic acid/polyglycolic acid homopolymer or copolymer.
53. (new): A method of stimulating bone growth in a subject at a site in need of a bone graft, said method comprising the step of administering to the site a therapeutically effective

amount of the peptide Ala-Gly-Tyr-Lys-Pro-Asp-Glu-Gly-Lys-Arg-Gly-Asp-Ala-Cys-Glu-Gly-Asp-Ser-Gly-Gly-Pro-Phe-Val-NH₂ (SEQ ID NO: 7).

54. (new): A method of stimulating bone growth in a subject at a segmental bone gap, a bone void or a non-union fracture at which bone growth would not occur if said segmental bone gap, said bone void or said non-union fracture is left untreated, said method comprising the step of administering to the bone gap, bone void or non-union fracture a therapeutically effective amount of the peptide Ala-Gly-Tyr-Lys-Pro-Asp-Glu-Gly-Lys-Arg-Gly-Asp-Ala-Cys-Glu-Gly-Asp-Ser-Gly-Gly-Pro-Phe-Val-NH₂ (SEQ ID NO: 7).